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特許協力条約

09/913688

P C T

国際調査報告

(法8条、法施行規則第40、41条)
〔PCT18条、PCT規則43、44〕

| | | |
|--------------------------|----------------------------|---|
| 出願人又は代理人 の書類記号 | S O O P 1 5 3 1 W O 0 0 | 今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220)及び下記5を参照すること。 |
| 国際出願番号 PCT/JPOO/08892 | 国際出願日 (日.月.年) | 優先日 (日.月.年) |
| 出願人(氏名又は名称) ソニー株式会社 | | |

国際調査機関が作成したこの国際調査報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 3 ページである。

この調査報告に引用された先行技術文献の写しも添付されている。

1. 国際調査報告の基礎:

- a. 言語は、下記に示す場合を除くほか、この国際出願がされたものに基づき国際調査を行った。
 - この国際調査機関に提出された国際出願の翻訳文に基づき国際調査を行った。
- b. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際調査を行った。
 - この国際出願に含まれる書面による配列表
 - この国際出願と共に提出されたフレキシブルディスクによる配列表
 - 出願後に、この国際調査機関に提出された書面による配列表
 - 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表
 - 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった。
 - 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。

2. 請求の範囲の一部の調査ができない(第I欄参照)。

3. 発明の單一性が欠如している(第II欄参照)。

4. 発明の名称は 出願人が提出したものと承認する。

次に示すように国際調査機関が作成した。

5. 要約は 出願人が提出したものと承認する。

第III欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から1ヶ月以内にこの国際調査機関に意見を提出することができる。

6. 要約書とともに公表される図は、

第 7 図とする。 出願人が示したとおりである。

なし

出願人は図を示さなかった。

本図は発明の特徴を一層よく表している。

第I欄 請求の範囲の一部の調査ができないときの意見（第1ページの2の続き）

法第8条第3項（PCT 17条(2)(a)）の規定により、この国際調査報告は次の理由により請求の範囲の一部について作成しなかった。

1. 請求の範囲 _____ は、この国際調査機関が調査をすることを要しない対象に係るものである。
つまり、
2. 請求の範囲 24, 25, 27, 36 _____ は、有意義な国際調査をすることができる程度まで所定の要件を満たしていない国際出願の部分に係るものである。つまり、
該請求項には「前記記録装置」と記載されているが、それ以前に「記録装置」の記載が認められず、何を指すのかが不明である。（ハードディスクを指すものと認められるが、その場合請求項25及び36は実質的に意味を持たないのではないか）
3. 請求の範囲 _____ は、従属請求の範囲であって PCT 規則6.4(a) の第2文及び第3文の規定に従って記載されていない。

第II欄 発明の単一性が欠如しているときの意見（第1ページの3の続き）

次に述べるようにこの国際出願に二以上の発明があるとこの国際調査機関は認めた。

1. 出願人が必要な追加調査手数料をすべて期間内に納付したので、この国際調査報告は、すべての調査可能な請求の範囲について作成した。
2. 追加調査手数料を要求するまでもなく、すべての調査可能な請求の範囲について調査することができたので、追加調査手数料の納付を求めなかった。
3. 出願人が必要な追加調査手数料を一部のみしか期間内に納付しなかったので、この国際調査報告は、手数料の納付のあった次の請求の範囲のみについて作成した。
4. 出願人が必要な追加調査手数料を期間内に納付しなかったので、この国際調査報告は、請求の範囲の最初に記載されている発明に係る次の請求の範囲について作成した。

追加調査手数料の異議の申立てに関する注意

- 追加調査手数料の納付と共に出願人から異議申立てがあった。
- 追加調査手数料の納付と共に出願人から異議申立てがなかった。

A. 発明の属する分野の分類(国際特許分類(IPC))

Int. C17 G06F13/28, G06F13/38, H04N5/91

B. 調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int. C17 G06F5/06, G06F13/28, G06F13/38, H04N5/91

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1922-1996年

日本国公開実用新案公報 1971-2000年

日本国登録実用新案公報 1994-2000年

日本国実用新案登録公報 1996-2000年

国際調査で使用した電子データベース(データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

| 引用文献の カテゴリー* | 引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示 | 関連する 請求の範囲の番号 |
|-----------------|---|------------------|
| Y | JP, 7-114510, A(株式会社日立製作所), 2.5月. 1995(02.05.95) (ファミリーなし) | 1-40 |
| Y | JP, 10-11092, A(株式会社日立製作所), 16.1月. 1998(16.01.98) (ファミリーなし) | 1-40 |
| A | JP, 1-163864, A(横河電機株式会社), 28.6月. 1989(28.06.89) (ファミリーなし) | 1-40 |

 C欄の続きにも文献が列挙されている。 パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」特に関連のある文献ではなく、一般的技術水準を示すもの

「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの

「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献(理由を付す)

「O」口頭による開示、使用、展示等に言及する文献

「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの

「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの

「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの

「&」同一パテントファミリー文献

国際調査を完了した日

25. 01. 01

国際調査報告の発送日

06.02.01

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号 100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官(権限のある職員)

佐藤 匡

5R 9650

電話番号 03-3581-1101 内線 3520

PCT REQUEST

Original (for SUBMISSION)

S00P1531WO00

| | | |
|---------|--|---|
| 0 | For receiving Office use only | |
| 0-1 | International Application No. | |
| 0-2 | International Filing Date | |
| 0-3 | Name of receiving Office and "PCT International Application" | |
| 0-4 | Form - PCT/RO/101 PCT Request | |
| 0-4-1 | Prepared using | PCT-EASY Version 2.91 (updated 10.10.2000) |
| 0-5 | Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty | |
| 0-6 | Receiving Office (specified by the applicant) | Japanese Patent Office (RO/JP) |
| 0-7 | Applicant's or agent's file reference | S00P1531WO00 |
| I | Title of invention | INFORMATION PROCESSING APPARATUS AND METHOD AND RECORDING MEDIUM |
| II | Applicant This person is: | applicant only |
| II-1 | Applicant for | all designated States except US |
| II-4 | Name | SONY CORPORATION |
| II-5 | Address: | 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan |
| II-6 | State of nationality | JP |
| II-7 | State of residence | JP |
| II-8 | Telephone No. | 03-5448-2111 |
| II-9 | Facsimile No. | 03-5448-5709 |
| III-1 | Applicant and/or Inventor This person is: | applicant and inventor |
| III-1-1 | Applicant for | US only |
| III-1-4 | Name (LAST, First) | MORINAGA, Takeo |
| III-1-5 | Address: | C/O SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan |
| III-1-6 | State of nationality | JP |
| III-1-7 | State of residence | JP |

PCT REQUEST

Original (for SUBMISSION)

SOOP1531WO00

| | | |
|--------------|---|---|
| IV-1 | Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: IV-1-1 Name (LAST, First) IV-1-2 Address: IV-1-3 Telephone No. IV-1-4 Facsimile No. IV-1-5 e-mail | Agent SUGIURA, Masatomo 7th Floor, Ikebukuro Park Bldg., 49-7, Minami Ikebukuro 2-chome, Toshima-ku, Tokyo 171-0022 Japan 03-3980-0339 03-3982-3166 sugipat2@mbc.nifty.com |
| V | Designation of States | |
| V-1 | Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) | EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT |
| V-2 | National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) | CN JP KR US |
| V-5 | Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. | |
| V-6 | Exclusion(s) from precautionary designations | NONE |
| VI-1 | Priority claim of earlier national application | |
| VI-1-1 | Filing date | 17 December 1999 (17.12.1999) |
| VI-1-2 | Number | Patent Application 11-358634 |
| VI-1-3 | Country | JP |
| VII-1 | International Searching Authority Chosen | Japanese Patent Office (JPO) (ISA/JP) |

PCT REQUEST

Original (for SUBMISSION)

S00P1531WO00

| VIII | Check list | number of sheets | electronic file(s) attached |
|---------|--|--|------------------------------------|
| VIII-1 | Request | 4 | - |
| VIII-2 | Description | 24 | - |
| VIII-3 | Claims | 9 | - |
| VIII-4 | Abstract | 1 | s00p1531_abstract.txt |
| VIII-5 | Drawings | 14 | - |
| VIII-7 | TOTAL | 52 | |
| | Accompanying Items | paper document(s) attached | electronic file(s) attached |
| VIII-8 | Fee calculation sheet | ✓ | - |
| VIII-9 | Separate signed power of attorney | ✓ | - |
| VIII-12 | Priority document(s) | Item(s) VI-1 | - |
| VIII-16 | PCT-EASY diskette | - | Diskette |
| VIII-17 | Other (specified): | Revenue stamps of transmittal fee and search fee for receiving office | - |
| VIII-17 | Other (specified): | Submission of certificate of payment for international fee | - |
| VIII-18 | Figure of the drawings which should accompany the abstract | 7 | |
| VIII-19 | Language of filing of the International application | Japanese | |
| IX-1 | Signature of applicant or agent | | |
| IX-1-1 | Name (LAST, First) | SUGIURA, Masatomo | |

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| | | |
|--------|---|---------------|
| 10-1 | Date of actual receipt of the purported International application | |
| 10-2 | Drawings: | |
| 10-2-1 | Received | |
| 10-2-2 | Not received | |
| 10-3 | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application | |
| 10-4 | Date of timely receipt of the required corrections under PCT Article 11(2) | |
| 10-5 | International Searching Authority | ISA/JP |
| 10-6 | Transmittal of search copy delayed until search fee is paid | |

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S00P1531WO00

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| | |
|------|---|
| 11-1 | Date of receipt of the record copy by the International Bureau |
|------|---|

SUGIURA PATENT OFFICE

531 Rec'd PCT/JP

9/913688

16 AUG 2001

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BY FAX

30 March 2001

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, SWITZERLAND

CONFIRMATION

Our Ref.: SOOP1531W000

"Amendment of the claims under Article 19(1)(Rule 46)"

Re: International Application No. PCT/JP00/08892

Applicant: SONY CORPORATION et al

Agent: Masatomo SUGIURA

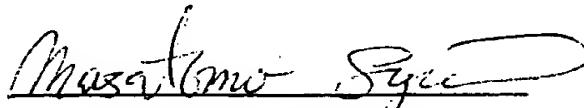
International Filing Date: 15 December 2000(15.12.00)

Dear Sir.

The Applicant, who received the International Search Report relating to the above identified International Application transmitted on 6 February 2001, hereby files amendment under Article 19(1) as in the attached sheets.

Claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 are retained unchanged, claims 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 are amended, and claims 39, 40 are cancelled.

Very truly yours,



Masatomo SUGIURA

Attachment:

Amendment under Article 19(1)

9 sheets

CLAIMS

1. An information processing apparatus comprising:
 - receiving means for receiving a stream constructed by packets of a predetermined format;
 - 5 extracting means for extracting the packets which are recorded to a recording apparatus from the packets constructing said stream received by said receiving means;
 - memory means for storing said packets extracted by said extracting means;
- 10 a command buffer for forming a command for instructing a DMA transfer; and
 - transfer means for DMA-transferring said packets to said recording apparatus by using the packets as a block of a predetermined data amount in accordance with said command formed in said command buffer.
- 15 2. An information processing apparatus according to claim 1, wherein said command to instruct said DMA transfer is formed in the case where the data amount of said packets stored by said memory means reaches a predetermined capacity.
- 20 3. An information processing apparatus according to claim 1, wherein said memory means is constructed by an input FIFO and an output FIFO.
- 25 4. An information processing apparatus according to claim 3, wherein said command to instruct said DMA transfer is formed in the case where the data amount of said packets stored in said input FIFO is equal to or larger than a predetermined capacity.

5. An information processing apparatus according to
claim 3, wherein said command to instruct said DMA transfer
is formed in the case where the data amount of said packets
stored in said output FIFO is equal to or smaller than the
predetermined capacity.

10 6. An information processing apparatus according to
claim 1, further comprising adding means for adding address
information including at least one of an address in said
recording apparatus in which a just-previous block has been
recorded, an address in said recording apparatus in which
a current block is recorded, and an address in said recording
apparatus in which a just-subsequent block is recorded to
said packets.

15 7. An information processing apparatus according to
claim 1, wherein said recording apparatus is a hard disk
drive built in said information processing apparatus.

20 8. An information processing apparatus comprising:
receiving means for receiving a stream
constructed by packets of a predetermined format;
extracting means for extracting the packets which
are recorded to a recording apparatus from the packets
constructing said stream received by said receiving means;
memory means for storing said packets extracted
by said extracting means;

25 a command buffer for setting address information
for DMA transfer; and
adding means for adding said set address

information every predetermined data amount (block) of the packets read out from said memory means.

9. An information processing apparatus according to claim 8, wherein said adding means adds the address information including at least one of an address in said recording apparatus in which a just-previous block has been recorded, an address in said recording apparatus in which a current block is recorded, and an address in said recording apparatus in which a just-subsequent block is recorded to said block.

10 10. An information processing apparatus according to claim 8, further comprising updating means for updating said set address information for DMA transfer.

11. An information processing apparatus according to claim 10, wherein said updating means has an internal counter for automatically setting said address information.

12. An information processing apparatus according to claim 11, wherein as said address information, each time the DMA transfer of one block is finished, said internal counter is counted up and the address information of one block is set.

13. An information processing apparatus according to claim 10, wherein said updating means updates said address information for DMA transfer when the data amount of said packets stored by said memory means reaches a predetermined capacity.

14. An information processing apparatus according to

claim 8, wherein said memory means is constructed by an input FIFO and an output FIFO.

5 15. An information processing apparatus according to claim 14, further comprising updating means for updating said set address information for DMA transfer.

10 16. An information processing apparatus according to claim 15, wherein said updating means updates said address information for DMA transfer when the data amount of said packets stored in said input FIFO is equal to or larger than a predetermined capacity.

15 17. An information processing apparatus according to claim 15, wherein said updating means updates said address information for DMA transfer when the data amount of said packets stored in said output FIFO is equal to or smaller than a predetermined capacity.

18. An information processing apparatus according to claim 8, wherein said recording apparatus is a hard disk drive built in said information processing apparatus.

19. A digital broadcast receiving apparatus having a hard disk drive therein, comprising:

receiving means for receiving a stream constructed by packets of a predetermined format;

extracting means for extracting the packets which are recorded into said hard disk drive from the packets constructing said stream received by said receiving means;

memory means for storing said packets extracted by said extracting means;

a command buffer for forming a command for instructing a DMA transfer; and

transfer means for DMA-transferring said packets to said hard disk drive by using the packets as a block of a predetermined data amount in accordance with said command formed in said command buffer.

5 20. A digital broadcast receiving apparatus according to claim 19, wherein said command to instruct said DMA transfer is formed in the case where the data amount 10 of said packets stored by said memory means reaches a predetermined capacity.

10 21. A digital broadcast receiving apparatus according to claim 19, wherein said memory means is constructed by an input FIFO and an output FIFO.

15 22. A digital broadcast receiving apparatus according to claim 21, wherein said command to instruct said DMA transfer is formed in the case where the data amount of said packets stored in said input FIFO is equal to or larger than a predetermined capacity.

20 23. A digital broadcast receiving apparatus according to claim 21, wherein said command to instruct said DMA transfer is formed in the case where the data amount of said packets stored in said output FIFO is equal to or smaller than a predetermined capacity.

25 24. (AMNDED)

A digital broadcast receiving apparatus according to claim 19, further comprising adding means for

adding address information including at least one of an address in said hard disk drive in which a just-previous block has been recorded, an address in said hard disk drive in which a current block is recorded, and an address in said hard disk drive in which a just-subsequent block is recorded to said packets.

5 25. (AMENDED)

A digital broadcast receiving apparatus having a hard disk drive therein, comprising:

10 receiving means for receiving a stream constructed by packets of a predetermined format;

 extracting means for extracting the packets which are recorded into said hard disk drive from the packets constructing said stream received by said receiving means;

15 memory means for storing said packets extracted by said extracting means;

 a command buffer for setting address information for DMA transfer; and

 adding means for adding said set address information every predetermined data amount (block) of the packets read out from said memory means.

20 26. (AMENDED)

A digital broadcast receiving apparatus, according to claim 25, wherein said adding means adds the address information including at least one of an address in said hard disk drive in which a just-previous block has been recorded, an address in said hard disk drive in which

a current block is recorded, and an address in said hard disk drive in which a just-subsequent block is recorded to said block.

27. (AMENDED)

5 A digital broadcast receiving apparatus, according to claim 25, further comprising updating means for updating said set address information for DMA transfer.

28. (AMENDED)

A digital broadcast receiving apparatus
10 according to claim 27, wherein said updating means has an internal counter for automatically setting said address information.

29. (AMENDED)

A digital broadcast receiving apparatus
15 according to claim 28, wherein as said address information, each time the DMA transfer of one block is finished, said internal counter is counted up and the address information of one block is set.

30. (AMENDED)

20 A digital broadcast receiving apparatus according to claim 27, wherein said updating means updates said address information for DMA transfer when the data amount of said packets stored by said memory means reaches a predetermined capacity.

25 31. (AMENDED)

A digital broadcast receiving apparatus according to claim 25, wherein said memory means is

constructed by an input FIFO and an output FIFO.

32. (AMENDED)

A digital broadcast receiving apparatus according to claim 31, further comprising updating means for updating said set address information for DMA transfer.

5 33. (AMENDED)

A digital broadcast receiving apparatus according to claim 32, wherein said updating means updates said address information for DMA transfer when the data amount of said packets stored in said input FIFO is equal to or larger than a predetermined capacity.

10 34. (AMENDED)

A digital broadcast receiving apparatus according to claim 32, wherein said updating means updates said address information for DMA transfer when the data amount of said packets stored in said output FIFO is equal to or smaller than a predetermined capacity.

15 35. (AMENDED)

An information processing method comprising:
20 a receiving step of receiving a stream constructed by packets of a predetermined format;
an extracting step of extracting the packets which are recorded to a recording apparatus from the packets constructing said stream received by said receiving step;
25 a storing step of storing said packets extracted by said extracting means;
a forming step of forming a command for instructing

a DMA transfer by a command buffer; and
a transfer step of DMA-transferring said packets
to said recording apparatus by using the packets as a block
of a predetermined data amount in accordance with said
command formed in said forming step.

5

36. (AMENDED)

An information processing method comprising:
a receiving step of receiving a stream constructed
by packets of a predetermined format;

10

an extracting step of extracting the packets which
are recorded to a recording apparatus from the packets
constructing said stream received by said receiving step;

a storing step of storing said packets extracted
by said extracting step;

15

a setting step of setting address information for
DMA transfer by a command buffer; and

an adding step of adding said set address
information every predetermined data amount (block) of the
packets read out from said memory means.

20

37. (AMENDED)

A recording medium in which a computer-readable
program has been recorded, wherein said program comprises:

a receiving step of receiving a stream constructed
by packets of a predetermined format;

25

an extracting step of extracting the packets which
are recorded to a recording apparatus from the packets
constructing said stream received by said receiving step;

a storing step of storing said packets extracted by said extracting means;

a forming step of forming a command for instructing a DMA transfer by a command buffer; and

5 a transfer step of DMA-transferring said packets to said recording apparatus by using the packets as a block of a predetermined data amount in accordance with said command formed in said forming step.

38. (AMENDED)

10 A recording medium in which a computer-readable program has been recorded, wherein said program comprises:

a receiving step of receiving a stream constructed by packets of a predetermined format;

15 an extracting step of extracting the packets which are recorded to a recording apparatus from the packets constructing said stream received by said receiving step;

a storing step of storing said packets extracted by said extracting step;

20 a setting step of setting address information for DMA transfer by a command buffer; and

an adding step of adding said set address information every predetermined data amount (block) of the packets read out from said memory means.

39. (DELETED)

25 40. (DELETED)